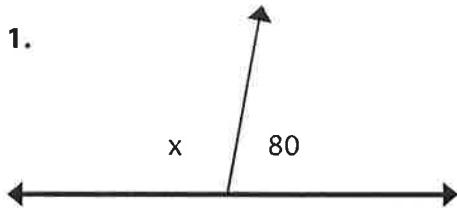


Name: _____

Supplementary Angles

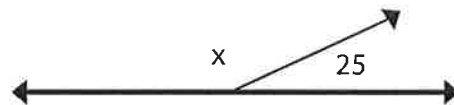
Solve for angle x.

1.



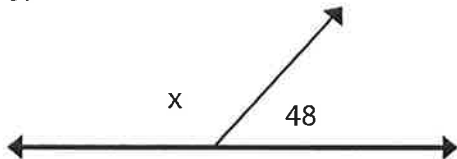
$$x = \underline{100}$$
$$180 - 80 = 100$$

2.



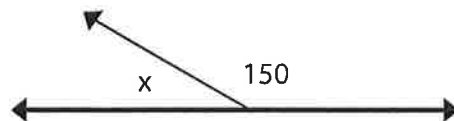
$$x = \underline{\hspace{2cm}}$$

3.



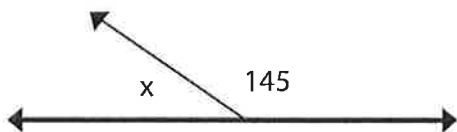
$$x = \underline{\hspace{2cm}}$$

4.



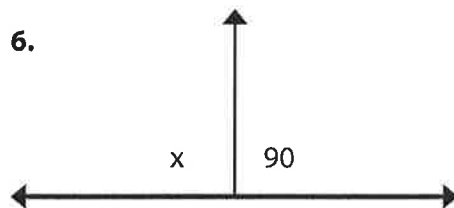
$$x = \underline{\hspace{2cm}}$$

5.



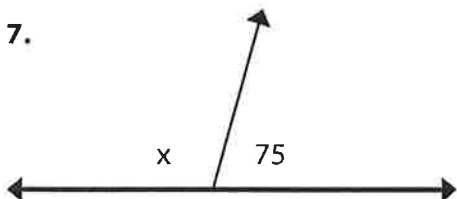
$$x = \underline{\hspace{2cm}}$$

6.



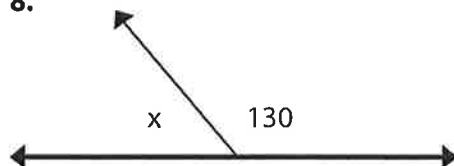
$$x = \underline{\hspace{2cm}}$$

7.



$$x = \underline{\hspace{2cm}}$$

8.



$$x = \underline{\hspace{2cm}}$$



Practice Set 2



Write all of your answers on a separate sheet of paper.

In each set of problems below, do as many exercises as you can in one minute.

Problem Set 1 Problem Set 2 Problem Set 3

1. $5 * 2$ 16. $9 * 4$ 31. $2 * 11$
2. $6 * 10$ 17. $7 * 8$ 32. $3 * 10$
3. $2 * 4$ 18. $8 * 3$ 33. $1 * 4$
4. $3 * 5$ 19. $9 * 2$ 34. $4 * 3$
5. $8 * 6$ 20. $9 * 6$ 35. $3 * 7$
6. $8 * 7$ 21. $5 * 10$ 36. $5 * 3$
7. $11 * 5$ 22. $5 * 6$ 37. $11 * 0$
8. $7 * 6$ 23. $4 * 8$ 38. $9 * 5$
9. $5 * 4$ 24. $6 * 3$ 39. $5 * 8$
10. $6 * 7$ 25. $3 * 8$ 40. $6 * 2$
11. $7 * 9$ 26. $10 * 10$ 41. $4 * 4$
12. $7 * 4$ 27. $9 * 5$ 42. $7 * 7$
13. $6 * 9$ 28. $7 * 3$ 43. $9 * 11$
14. $8 * 2$ 29. $3 * 11$ 44. $3 * 12$
15. $2 * 10$ 30. $0 * 9$ 45. $4 * 4$

Practice Set 2 (cont.)



Write all of your answers on a separate sheet of paper.

Table of Equivalents		
$3 * 4$	$12 / 3$	$12 \div 3$
3×4	$\frac{12}{3}$	$3 \overline{)12}$

Solve.

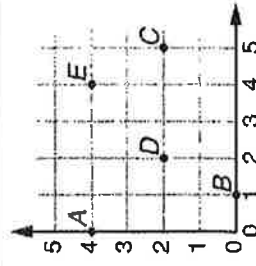
46. 250×4 47. $525 - 78$ 48. $184 - 67$
49. $21 + 55$ 50. $35 + 24$ 51. $39 + 16$
52. 19×30 53. $531 + 721$ 54. $1,800 - 744$
55. $(60 + 30) * 5$ 56. $38 - (6 * 6)$
57. $48 + 22 + 27$ 58. $(63 / 9) * 7$

Round to the nearest thousand.

59. 47,983 60. 5,255
61. 76,529 62. 383,051

Write the coordinates of the points shown on the coordinate grid.

63. A 64. B
65. C 66. D
67. E



Write all of your answers on a separate sheet of paper.

Write the numbers from 30 to 50. Use those numbers to answer items 1–4.

1. List the even numbers.
2. List the odd numbers.
3. List the numbers that have 5 as a factor.
4. List the numbers that have 4 as a factor.

Solve.

- | | | |
|--------------|--------------|--------------|
| 5. $5 + 4$ | 6. $12 - 4$ | 7. $10 + 7$ |
| 8. $11 - 5$ | 9. $9 + 6$ | 10. $11 - 8$ |
| 11. $6 + 8$ | 12. $13 - 9$ | 13. $12 - 5$ |
| 14. $17 - 8$ | 15. $8 + 8$ | 16. $15 - 6$ |
| 17. $3 + 7$ | 18. $9 - 9$ | 19. $7 + 9$ |

Write each of the following in dollars-and-cents notation.

20. 4 quarters, 3 dimes, 2 nickels, 4 pennies
21. 6 quarters, 6 dimes, 1 nickel, 2 pennies
22. 5 quarters, 2 nickels
23. 10 quarters, 18 nickels
24. 8 quarters, 5 nickels, 7 dimes
25. 9 quarters, 10 dimes, 5 pennies

Write all of your answers on a separate sheet of paper.

Use divisibility tests to help you answer these questions. Write *yes* or *no*.

1. Is 300 divisible by 5?
2. Is 752 divisible by 2?
3. Is 5,225 divisible by 3?
4. Is 39,105 divisible by 9?
5. Is 18,373 divisible by 5?
6. Is 103,748 divisible by 10?

Write the numbers in order from least to greatest.

7. $\frac{7}{10}, \frac{5}{10}, \frac{9}{10}, \frac{3}{10}, \frac{6}{10}$
8. $\frac{3}{5}, \frac{3}{7}, \frac{3}{4}, \frac{3}{2}, \frac{3}{8}$
9. $\frac{1}{2}, \frac{3}{5}, \frac{1}{4}, \frac{7}{10}, \frac{11}{12}$

Make name-collection boxes for the numbers below. Use as many different numbers and operations as you can.

Example

189	10. 138
$(60 \times 3) + 9$	11. 79
$378 / 2$	12. 402
$(200 - 15) + 4$	



Write all of your answers on a separate sheet of paper.
Complete.

13. $10^3 =$

14. $10^4 = 10,000$

15. $10 * 10 * 10 * 10 * 10 =$

16. 10 to the eighth power =

Rewrite the number models with parentheses to make them correct.

17. $7 * 9 - 4 = 35$

18. $7 * 9 - 4 = 59$

19. $32 - 16 - 7 = 9$

20. $32 - 16 - 7 = 23$

21. $4 * 9 + 3 * 12 = 72$

22. $40 = 5 * 7 + 5$

23. $60 = 5 * 7 + 5$

24. $589 = 6 * 25 + 75 - 11$

Solve.

25. How many 8s in 2,400? 26. How many 7s in 7,700?

27.
$$\begin{array}{r} 2,000 \\ + 43 \\ \hline \end{array}$$

28.
$$\begin{array}{r} 150 \\ * 30 \\ \hline \end{array}$$

29.
$$\begin{array}{r} 2,500 \\ * 5 \\ \hline \end{array}$$

30.
$$\begin{array}{r} 175 \\ * 20 \\ \hline \end{array}$$

31.
$$\begin{array}{r} 428 \\ * 8 \\ \hline \end{array}$$

32.
$$\begin{array}{r} 92 \\ * 15 \\ \hline \end{array}$$

33.
$$\begin{array}{r} 800 \\ * 45 \\ \hline \end{array}$$

34.
$$\begin{array}{r} 750 \\ * 18 \\ \hline \end{array}$$

35. $6 \overline{)78}$

36. $30 \overline{)4,500}$

37. $450 / 9$

38. A soup company offered to donate 40¢ for every soup-can label a school turned in. Forty-three students at Audubon School each brought in 25 soup can labels. How many soup-can labels did all the students bring in?

39. How much would the soup company donate to Audubon School?



Write all of your answers on a separate sheet of paper.
Write prime or composite for each number.

1. 18

2. 17

3. 39

4. 43

5. 50

6. 23

7. 42

8. 77

9. 37

Find the area of each rectangle and write the number model.

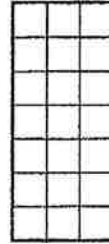
Area = length (l) \times width (w)

Example

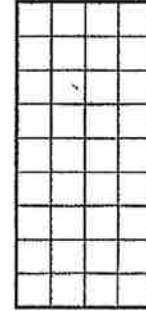


$4 * 8 = 32$ square units

10.



11.



Multiplying Decimals

Solve each multiplication below.

1. $9.1 \times 7.4 =$ _____

10. $8.501 \times 5.736 =$ _____

2. $2.54 \times 3.82 =$ _____

11. $3.4 \times 4.003 =$ _____

3. $3.93 \times 5.1 =$ _____

12. $00.71 \times 5.5 =$ _____

4. $1.80 \times 6.2 =$ _____

13. $65.091 \times 1.629 =$ _____

5. $6.78 \times 4.3 =$ _____

14. $3.8291 \times 8.3167 =$ _____

6. $10.6 \times 9.0 =$ _____

15. $0.2451 \times 4.004 =$ _____

7. $44.1 \times 89.2 =$ _____

16. $.1299 \times 339.0 =$ _____

8. $0.736 \times 2.71 =$ _____

17. $00.007 \times 0.8100 =$ _____

9. $9.77 \times 66 =$ _____

18. $08.13 \times 2.2007 =$ _____

Remember!

Line up your decimals!

$$\begin{array}{r} 16.27 \\ \times 0.5138 \\ \hline \end{array}$$

Write all of your answers on a separate sheet of paper.

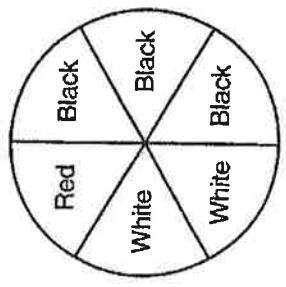
Rewrite each product using exponents.

1. $3 \times 3 \times 3$
2. $3 \times 3 \times 5 \times 5 \times 5$
3. $2 \times 2 \times 7 \times 7$
4. $5 \times 5 \times 7 \times 7$
5. $3 \times 3 \times 11 \times 11$
6. $5 \times 5 \times 5 \times 5$

Tell which is the prime factorization for each number.

7. 16 $2 \times 2 \times 2 \times 2$ or $2 \times 2 \times 2 \times 4$
8. 9 2×3 or 3×3
9. 30 3×10 or $2 \times 3 \times 5$

Use the spinner for items 10–12. Suppose you spin a paper clip on the base of the spinner. Write *true* or *false* for each statement.



10. The paper clip is most likely to land on black.
11. The paper clip is least likely to land on red.
12. The paper clip is equally likely to land on black as on white.

Solve.

13. $\begin{array}{r} 20 \\ + 17 \\ \hline \end{array}$
14. $\begin{array}{r} 31 \\ - 15 \\ \hline \end{array}$
15. $\begin{array}{r} 38 \\ + 24 \\ \hline \end{array}$
16. $\begin{array}{r} 320 \\ - 160 \\ \hline \end{array}$
17. $\begin{array}{r} 560 \\ + 481 \\ \hline \end{array}$
18. $\begin{array}{r} 745 \\ - 260 \\ \hline \end{array}$

Write all of your answers on a separate sheet of paper.

In each set of problems below, do as many exercises as you can in one minute.

Problem Set 1 Problem Set 2 Problem Set 3

19. $108 \div 9$
20. $44 \div 4$
21. $121 \div 11$
22. $90 \div 9$
23. $132 \div 12$
24. 12×5
25. 10×11
26. 12×7
27. 9×7
28. 4×12
29. 6×7
30. 4×3
31. $14 \div 2$
32. 17×2
33. 12×10
34. 9×6
35. 7×7
36. 12×8
37. 2×10
38. 11×4
39. 12×6
40. 3×11
41. 12×9
42. 4×7
43. 11×11
44. $81 \div 9$
45. 8×8
46. 12×12
47. $16 \div 4$
48. 6×9
49. 6×6
50. 12×11
51. 8×4
52. 3×8
53. 4×10
54. $64 \div 8$
55. $49 \div 7$
56. $144 \div 12$
57. $21 \div 3$
58. $55 \div 5$
59. $63 \div 9$
60. $21 \div 7$
61. 15×3
62. $48 \div 8$
63. 9×8



Write all of your answers on a separate sheet of paper.

The following table shows the dates on which some recent presidents of the United States were sworn into office. It also shows each of their ages at the time they were sworn in.

President	Date Sworn In	Age
Ford	August 9, 1974	61
Carter	January 20, 1977	52
Reagan	January 20, 1981	69
Bush	January 20, 1989	64
Clinton	January 20, 1993	46

15. What is the mean (average) age of the presidents at the time they were sworn in?

16. Who was president for the shortest time?

17. Presidents are elected for a term of 4 years. Which presidents served more than 1 term?

18. Which of the presidents is the oldest today?

19. How much older was Carter when he was sworn in than Clinton when he was sworn in as President.

20. If President Ford was 61 when he was sworn in, how old was he on the same date in 1993?



Write all of your answers on a separate sheet of paper.

Round each number to the nearest hundred.

1. 659 2. 4,273 3. 94.42
4. 83,201 5. 16,495 6. 5,982

Round each number to the nearest hundredth.

7. 4.023 8. 15.617 9. 0.179
10. 6.005 11. 732.424 12. 95.189

Make a magnitude estimate for the product. Is the solution in the *tenths, ones, tens, hundreds, thousands, or ten-thousands*?

13. 21×37 14. 67×93
15. 0.5×4.2 16. 362×45
17. 1.2×0.8 18. 475×5.2

Solve.

19. $\begin{array}{r} 79 \\ + 356 \\ \hline \end{array}$ 20. $\begin{array}{r} 2,256 \\ - 36 \\ \hline \end{array}$ 21. $\begin{array}{r} 120 \\ - 30 \\ \hline \end{array}$

22. $\begin{array}{r} 826 \\ + 182 \\ \hline \end{array}$ 23. $\begin{array}{r} 543 \\ + 768 \\ \hline \end{array}$ 24. $\begin{array}{r} 731 \\ + 610 \\ \hline \end{array}$



Write all of your answers on a separate sheet of paper.

Solve.

1. $49 * 53$
2. $19 * 247$
3. $34 * 4.7$
4. $3.2 * 9.7$
5. $891 * 127$
6. $27.5 * 16.8$
7. $31 * 346$
8. $16.2 * 97$

Complete the "What's My Rule?" tables.

9.	10.
<div>Rule</div> <div>out = in * 30</div>	<div>Rule</div> <div></div>
in	in
6	27
8	33
9	
11	24
15	51
out	out
180	4
240	10
	14

11.	12.
<div>Rule</div> <div>out = in + 8.5</div>	<div>Rule</div> <div>out = in - 11</div>
in	in
15	27
23	33
6	
41	24
122	39
out	out
	14
	28



Write all of your answers on a separate sheet of paper.

If 1 centimeter on a map represents 20 kilometers, then find the following:

13. 8 cm represents \blacksquare km.
14. 11 cm represents \blacksquare km.
15. 14 cm represents \blacksquare km.
16. 2.5 cm represents \blacksquare km.
17. 12 cm represents \blacksquare km.

Rewrite the number sentences with parentheses to make them correct.

18. $18 = 4 + 2 * 7$
19. $33 - 14 - 5 = 24$
20. $53 - 12 + 7 = 48$
21. $8 * 9 + 4 * 12 = 120$
22. $96 = 6 * 7 + 9$
23. $4 * 3 + 8 * 10 = 440$
24. $230 = 8 * 21 + 76 - 14$
25. $8 * 10 - 3 = 56$

Complete.

26. $10^2 = \blacksquare$
27. $9^{\blacksquare} = 81$
28. $2 * 2 = 2^{\blacksquare}$
29. The square root of 121 = \blacksquare

Write all of your answers on a separate sheet of paper.

Solve.

1. 61×24

2. 4.3×7

3. 92×1.37

4. 537×72

5. 18.3×6.5

6. 124×396

7. 4.15×2.7

8. 58×6.25

Tell whether each number is divisible by 3. Write yes or no.

9. 27

10. 78

11. 158

12. 682

Tell whether each number is divisible by 9. Write yes or no.

13. 36

14. 93

15. 117

16. 487

Solve.

17. $\square + 9 = 29$

18. $300 + \square = 500$

19. $17 - \square = 12$

20. $100 - \square = 75$

21. $82 - \square = 50$

22. $\square + 92 = 108$

23. $\square = 30 + 65$

24. $\square - 60 = 55$

25. $200 + \square = 800$

26. $170 - \square = 90$

Write all of your answers on a separate sheet of paper.

1. Use the clues to complete the puzzle.

\square , \square , \square , \square , \square , \square , \square , \square , \square , \square

• Find $\frac{1}{10}$ of 40. Double the result and write it in the thousands place.

• Double 4. Divide the result by 2. Write the answer in the ten-thousands place.

• Find 7×6 . Reverse the digits in the result and divide by 8. Write the result in the millions place.

• Add 6 to the digit in the thousands place. Divide by 7 and write the result in the hundred-millions place.

• Write $\frac{12}{3}$ as a whole number in the ones place.

• Subtract the number in the ones place from the number in the ten-thousands place. Write the result in the hundreds place.

• Find $\frac{1}{3}$ of 18. Write the result in the hundred-thousands place.

• Find 20% of 35. Write the result in the ten-millions place.

• Add the number in the ten-millions place to the number in the hundred-millions place. Write the result in the ten-billions place.

• Find $\frac{1}{8}$ of 8 and write the result in the tens place.

• Find the sum of all the digits in the chart so far. Subtract 39 from the result and write the answer in the billions place.

2. Write the number in words.

Use with or after Lesson 2.10.



Write all of your answers on a separate sheet of paper.

Write the words for the following numbers.

3. 12,743,000 4. 8,054,000,000,000
5. 42,169,205,000,000 6. 16,802,946

To square a number, multiply the number by itself.

Complete.

7. $2^2 = \square$ 8. $4^2 = 16$
9. $5 * 5 = 5^{\square}$ 10. 8 squared = \square

Write the number models with parentheses and solve.

11. Add 73 to the difference of 2,465 and 846.
12. Subtract the sum of 224 and 613 from 2,548.
13. Add 72 to the difference of 3,527 and 1,565.
14. Subtract the sum of 128 and 27 from 228.

Mr. Henderson reported these scores on a quiz:
23, 18, 19, 23, 16, 12, 15, 12, 11, 16, 22, 19, 23

15. What is the maximum of the scores?
16. What is the minimum of the scores?
17. What is the range of the scores?
18. What is the mode of the scores?
19. What is the mean of the scores?
20. What is the median of the scores?

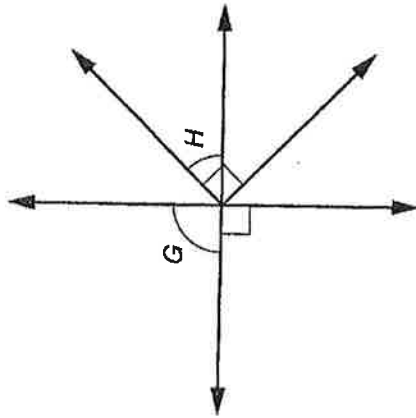


Write all of your answers on a separate sheet of paper.

Find the angle measures for the labeled angles. There are 360° in a circle and 180° in a straight line. Do not use a protractor.

1. $m \angle G$

2. $m \angle H$



Write the letter of the best estimate for each problem.

3. $87 * 3.6$ A. 900
4. $2.87 * 3.6$ B. 2,000
5. $72 * 58$ C. 360
6. $879 * 1.17$ D. 12
7. $19.8 * 132.5$ E. 4,200

Solve.

8.
$$\begin{array}{r} 524 \\ - 154 \\ \hline \end{array}$$
 9.
$$\begin{array}{r} 426 \\ - 273 \\ \hline \end{array}$$
 10.
$$\begin{array}{r} 684 \\ + 27 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 2,647 \\ - 235 \\ \hline \end{array}$$
 12.
$$\begin{array}{r} 700 \\ - 480 \\ \hline \end{array}$$
 13.
$$\begin{array}{r} 526 \\ + 203 \\ \hline \end{array}$$

Algebraic Expressions

Simplify the following expressions.

1.) $5a + 6a =$

2.) $3a + a =$

3.) $8a - 3a =$

4.) $10a - 2a =$

5.) $9a + 4a =$

6.) $11a - 7a =$

7.) $4b + 3b =$

8.) $12b - 6b =$

9.) $5b + 9b =$

Complete the following expressions.

1.) $12 \times 3 - 5 + 4 =$

2.) $4 + 7 \times 2 - 8 =$

3.) $5 - 7 + 2 \times 10 =$

4.) $15 \div 3 + 8 \times 5 =$

5.) $11 \times 3 - 12 \div 4 =$

6.) $5 + 9 - 16 \div 2 =$

Combine like terms to simplify the following expressions.

1.) $3a(a + 4) - 2a + 7 =$

2.) $5a + 3a - 15 \div 3 =$

3.) $4(3 + 9) + 10a - 4a =$

4.) $(21 \div 7)(4a + a) - 12 =$

5.) $17 + 4(3 + a) - a =$

6.) $10a - 4a + 27 \div 3 =$

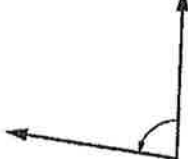
Write all of your answers on a separate sheet of paper.

Write the letter of the measurement that best describes each angle. Do not use a protractor.

1. A. 82°



2. B. 15°



3. C. 145°



4. D. 35°



Write true or false for each number sentence.

5. $125 + 7 = 130$
6. $23 * 6 > 100$
7. $37.6 * 1.8 < 37.6$
8. $(5 * 2) + 18 = 41$
9. $1.9 + 7.8 = 9.7$
10. $1,600 \div 8 = 200$

Round each number to the nearest hundredth.

11. 18.582
12. 5.826
13. 0.821
14. 634.624
15. 29.005
16. 23.205

Write all of your answers on a separate sheet of paper.

Rewrite the number sentences with parentheses to make them correct.

17. $7 * 12 - 6 = 42$
18. $7 * 12 - 6 = 78$
19. $230 - 130 - 50 = 150$
20. $21 = 3 * 2.4 + 4.6$
21. $3 * 8.3 + 5 * 12 = 84.9$
22. $300 = 5 * 70 - 50$
23. $4 * 10 + 6 - 1 = 60$
24. $378 = 12 * 30 + 18$

Use digits to write the following numbers.

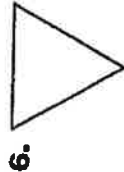
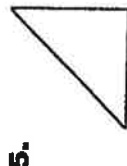
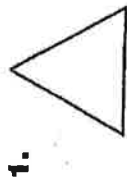
25. nineteen billion, six hundred million
26. seventy-six million, twenty thousand, six hundred fourteen
27. six trillion, four hundred fifty billion

Complete the number lines.

- 28.
- 29.
- 30.
- 31.
- 32.

Write all of your answers on a separate sheet of paper.

Write the name that describes each triangle:
equilateral, isosceles, or scalene.



Use the clues to find the number.

7. Clue 1: I am a prime number less than 30.

Clue 2: The sum of my digits is 5.

8. Clue 1: I am between 40 and 60.

Clue 2: I am divisible by 5.

Clue 3: The sum of my digits is 9.

9. Clue 1: I am greater than 500, but less than 1,000.

Clue 2: My square root is a square number.

Write all of your answers on a separate sheet of paper.

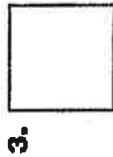
Write the letters of the names that fit the figure. More than one name may fit some figures.



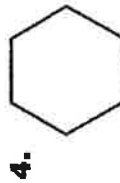
A. rhombus



B. square



C. quadrangle



D. hexagon

Write the letter of the prime factorization for each number.

5. 16

A. $2 * 2 * 2 * 5$

6. 40

B. $2 * 2 * 3 * 3$

7. 18

C. $2 * 2 * 2 * 2$

8. 36

D. $2 * 3 * 3$

Solve.

9. $24 = 6 * \blacksquare$

10. $8.2 + 9.8 = \blacksquare$

11. $9 * \blacksquare = \$1.80$

12. $\blacksquare / 1,700 = 5$

13. $82.4 - 12.8 = \blacksquare$

14. $180 * \blacksquare = 3,600$

15. $\blacksquare / 4.90 = 2$

16. $\$4.65 * 5 = \blacksquare$

Write all of your answers on a separate sheet of paper.

Divide.

1. $518 \div 5$
2. $183 \div 6$
3. $464 \div 4$
4. $630 \div 8$
5. $967 \div 9$
6. $1,344 \div 12$
7. $6,568 \div 8$
8. $3,068 \div 23$

9. Ellen had 293 buttons. She places 6 buttons in each bag. How many bags of buttons can she make?

Tell whether each number is even or odd. Then list all of the factors.

10. 49
11. 62
12. 76

Write the amounts.

13. Q Q D D D N N
P P P P P P P

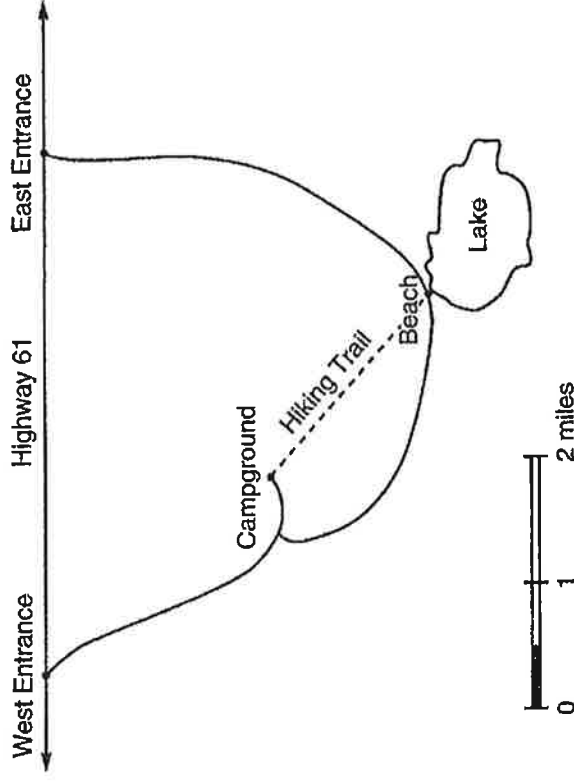
14. \$1 \$1 \$1 Q D D D N P P

15. \$5 \$1 \$1 Q Q Q N N

16. \$100 \$20 \$20 \$5 \$1 \$1 \$1

Write all of your answers on a separate sheet of paper.

Use the map and map scale to answer the questions.



1. How far is it from the East Entrance to the lake?
2. Which is closer to the beach, the East or West Entrance?
3. Which entrance is closer to the campground? By how many miles?
4. Sue and Jason want to go from the campground to the beach. If Sue rides her bike on the road at 5 miles per hour, and Jason walks on the trail at 3 miles per hour, who will reach the beach first?
5. If there were a trail around the lake, estimate how long this trail would be.
6. If you wanted to hike about 4 miles, describe a route you might take.

Comparing Decimals

Compare decimals. Write a $<$, $>$ or $=$.

1. 5.25 _____ 5.43

2. 7.467 _____ 7.674

3. 0.14 _____ 0.15

4. 1.555876 _____ 1.555876

5. 71.05 _____ 72.00

6. 6.1 _____ 6.13

7. 9.120 _____ 9.12

8. 4.311 _____ 4.311

9. 5.8000001 _____ 5.8000002

10. 3 _____ .03

11. 9.3540 _____ 9.5430



Write all of your answers on a separate sheet of paper.

Write the numbers in order from least to greatest.

7. 1.79, 0.12, 5.1, 0.4, 4.03

8. 9.8, 0.98, 8.09, 8.9, 0.89

9. 0.2, 2.2, 0.12, 1.2, 0.21

Estimate the answer to each multiplication problem.

10. $185 * 22$

11. $92 * 41$

12. $781 * 68$

13. $209 * 71$

14. $314 * 18$

15. $903 * 47$

Solve.

16. $900 * 800 = p$

17. $5,000 * d = 300,000$

18. $5,400 = x * 90$

19. $42,000 = 700 * s$

20. $3 * 1,500 = n$

21. $64,000 / 8,000 = g$

Solve.

22. A mole can dig a tunnel 300 feet long in one night.
How many yards can a mole dig in three weeks?
(Reminder: 3 ft = 1 yd)

23. A bottle-nosed dolphin can dive to a depth of 3,000 feet in 2 minutes. About how many yards per second is that?

24. When it snows, Shawn charges \$4 for every sidewalk he shovels, and \$5 for every driveway he shovels. If he shovels 8 sidewalks and 3 driveways, how much does he earn?



Write all of your answers on a separate sheet of paper.

Make a magnitude estimate of the quotient. Is the solution in the *tenths*, *ones*, *tens*, or *hundreds*? Then divide.

1. $18.9 \div 7$

2. $297 \div 5$

3. $61.6 / 4$

4. $25.2 / 6$

5. $\$40.43 \div 3$

6. $786 / 6$

Solve.

7. $623 + 812$

8. $170 - 68$

9. $495 - 381$

10. $2,791 + 342$

11. $3,465 + 1,273$

12. $7,514 - 2,356$

Write a number sentence. Then find the solution.

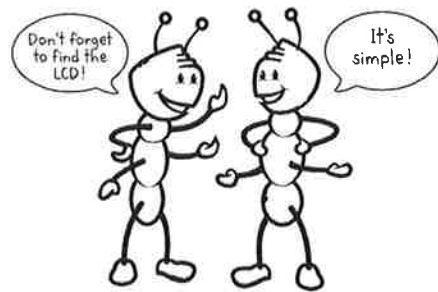
13. There are 17 cards in each box. On the shelf are 9 boxes. How many cards are on the shelf?

14. The library is open 6 days a week. Each day an average of 430 books are checked out. What is the average total number of books that are checked out in a week?

15. Karen bought a jacket for \$42.59 and a pair of slacks for \$23.65. How much did she spend in all?

Name: _____

Date: _____



Challenge: Use a pair of dice to make up your own equations to practice. Roll the dice and write the smaller number on top and the larger number on the bottom of a fraction. Roll again, write the next fraction, then add or subtract your fractions.

Add and subtract the fractions.
Then, simplify the answer if you can.

A.	$\frac{7}{8} - \frac{1}{2} =$ $\frac{7}{8} - \frac{4}{8} = \frac{3}{8}$	$\frac{6}{7} - \frac{2}{3} =$	$\frac{7}{9} - \frac{1}{4} =$	$\frac{6}{8} - \frac{2}{4} =$
B.	$\frac{11}{15} - \frac{3}{5} =$	$\frac{5}{6} - \frac{2}{8} =$	$\frac{5}{7} - \frac{2}{4} =$	$\frac{11}{15} - \frac{2}{5} =$
C.	$\frac{13}{15} - \frac{4}{6} =$	$\frac{7}{12} - \frac{4}{9} =$	$\frac{9}{10} - \frac{7}{15} =$	$\frac{10}{25} - \frac{5}{20} =$
D.	$\frac{5}{6} - \frac{1}{3} =$	$\frac{4}{5} - \frac{1}{3} =$	$\frac{8}{11} - \frac{1}{4} =$	$\frac{4}{8} - \frac{2}{16} =$
E.	$\frac{3}{9} - \frac{2}{6} =$	$\frac{2}{3} - \frac{2}{7} =$	$\frac{8}{15} - \frac{2}{5} =$	$\frac{3}{9} - \frac{1}{3} =$
F.	$\frac{6}{8} - \frac{2}{3} =$	$\frac{12}{18} - \frac{2}{3} =$	$\frac{13}{14} - \frac{3}{7} =$	$\frac{7}{9} - \frac{5}{36} =$

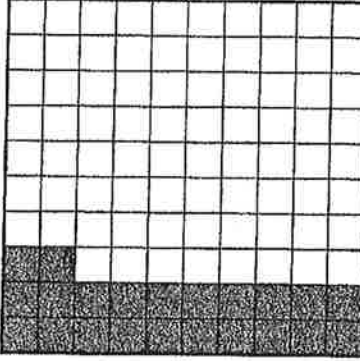
Write all of your answers on a separate sheet of paper.

Susana made 12 of 16 shots in the basketball game.

10. What fraction of the shots did she make?
11. What percent of the shots did she make?
12. At this rate, how many shots would she make if she took 20 shots?

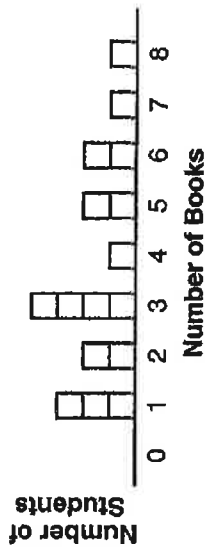
Mr. Ryan set a goal of running a total of 100 miles each month. He filled in the squares on the grid at the right to keep track of the miles he ran. Each square represents 1 mile.

13. How many miles has Mr. Ryan run so far this month?



14. What fraction of 100 miles did he run so far?
15. What percent of his goal has he reached?
16. If it took him 10 days to run this many miles, do you think he will reach his goal?
17. About how many miles should he run each day in an average month in order to reach his goal?
18. About how many miles will he need to run the rest of the days in this month in order to reach his goal?

Write all of your answers on a separate sheet of paper.
The graph below shows the number of books students read, outside of school, in one month.



1. What is the minimum number of books?
2. What is the maximum?
3. What is the median?
4. What is the mean?
5. What is the mode?

Solve.

6.
$$\begin{array}{r} 2,940 \\ + 185 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 59 \\ \times 28 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 7,474 \\ + 2,852 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 2,058 \\ - 1,744 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 10,769 \\ + 2,375 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 63 \\ \times 36 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 4.928 \\ - 1.878 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 2.564 \\ - 1.9 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 9.375 \\ + 2.058 \\ \hline \end{array}$$

Complete.

15. 6 ft = in.
16. 2 yd = ft
17. 14 ft 3 in. = in.
18. 7 yd 4 ft = ft
19. 76 in. = ft in.
20. 28 ft = yd ft
21. 3,160 in. = yd ft in.

Algebra Practice Problems

Complete the algebraic equations. If the answer is a fraction,
reduce and convert it to a mixed number.

1.) $x + 7 - 4(x + 1) = -10$

2.) $5x - 4 + 2(x - 4) = 16$

3.) $20 + 3x - 15 + x = 27$

4.) $11 - 2x + 8x + 5 = 32$

5.) $5(2x - 7) + 42 - 3x = 2$

6.) $2(4x - 2) - 5x = -18$

7.) $30 - 6(x + 3) + 2x = 8$

8.) $23 + 4(x - 3) - x = 11$

9.) $2x - 14 + 3(x + 1) = -4$

10.) $6(2x + 2) + 12 = 50$

Write all of your answers on a separate sheet of paper.
Measure each line segment to the nearest millimeter.

1. _____
2. _____
3. _____
4. _____

5. Use the clues to complete the puzzle.

■ . ■ ■ ■ ■

- Multiply 6×40 . Subtract 233 and write the result in the ones place.
- Write 75% of 4 in the hundredths place.
- Find $\frac{1}{20}$ of 100. Write the result in the thousandths place.
- Add 5 to the number in the hundredths place. Write the result in the tenths place.

Copy the numbers given for 6–13. Then circle the numbers that are divisible by 2 AND 3.

- | | | | |
|-----------|----------|----------|-----------|
| 6. 3,411 | 7. 3,846 | 8. 8,036 | 9. 552 |
| 10. 9,992 | 11. 144 | 12. 603 | 13. 7,212 |

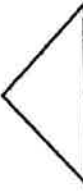
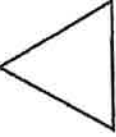
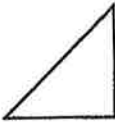

List all the factors of each number.

- | | | | |
|--------|--------|--------|--------|
| 14. 42 | 15. 15 | 16. 38 | 17. 28 |
|--------|--------|--------|--------|

Write all of your answers on a separate sheet of paper.
Use the information in the stem-and-leaf plot to answer items 1–4.

Science Test Scores		
1. How many scores are reported on the stem-and-leaf plot?	Stems (10s)	Leaves (1s)
2. What is the maximum?	2	7 7 8
3. What is the minimum?	3	1 3 3 5 6 8 8 9
4. What is the median?	4	0 0 1 2 3 3 3 4 5 7
	5	0 0

Tell whether each triangle is *equilateral*, *isosceles*, or *scalene*.

5. 
6. 
7. 
8. 

Compare. Write $<$ or $>$.

9. 265,168 \blacksquare 29,518
10. 51,462 \blacksquare 54,169
11. 1,645,283 \blacksquare 1,644,823
12. 22,469,743 \blacksquare 22,567,843



Write all of your answers on a separate sheet of paper.

Solve.

13.65 * 65

14. 345 / 15

15.835 * 3

16. 1,500 / 25

17.23 * 25

18. 169 / 13

19.39 * 2

20. 650 / 9

1 gallon = 4 quarts = 16 cups

21. A good milking cow will give up to 6,000 quarts of milk in a year. How many gallons is that?

22. About how many gallons is that per day?

23. If a family uses 2 gallons of milk per week, how many cups of milk does the family consume in a year?

Make name-collection boxes for the numbers below. Use as many different numbers and operations as you can.

Example

419,641
$420 - 0.359$
$419 + \frac{641}{1000}$
$419,641 / 1,000$
$400 + 19,641$

24. 3.805

25. 21.87

26- 8.925

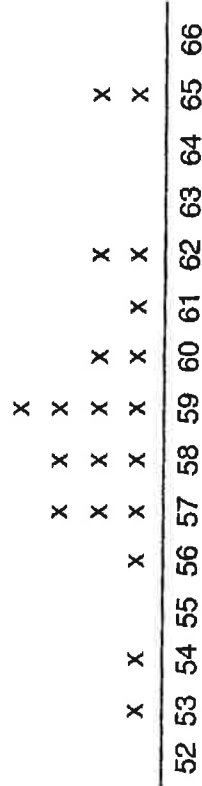
27. 392.8

60

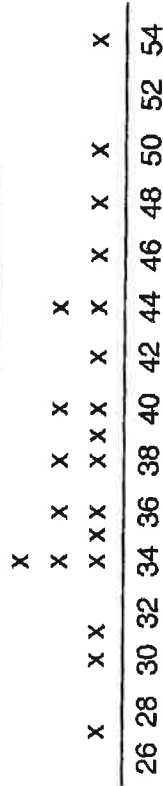


Write all of your answers on a separate sheet of paper.

Examine the mystery plots below.

Plot #1 Unit: 樓

Plot #2 Unit:



1. Which graph could describe the ages of fifth graders' mothers?

2. Which graph could describe the ages of people retiring from a business?

In the numeral 7,128,490,563 the 8 stands for 8,000,000.

3. What does the 7 stand for?

4. What does the 1 stand for?

5. What does the 0 stand for?

6. What does the 9 stand for?

7. What does the 2 stand for?

8. What does the 4 stand for?

Use with or after Lesson 6.4.

Combining Like Terms

1.) $x + 2x =$

2.) $2x - x =$

3.) $4x + 2x =$

4.) $6x - 3x =$

5.) $5x + x =$

6.) $2x + 2x =$

7.) $7x - 5x =$

8.) $3x - 2x =$

9.) $x + x =$

10.) $x^2 + 2x^2 =$

11.) $4x^2 - 3x^2 =$

12.) $3x^2 + 2x^2 =$

13.) $2x^2 + 2x + x^2 + x =$

14.) $5x + x^2 - 2x + x^2 =$

15.) $3x + 2x - x + 2x^2 =$

16.) $6x + 3x^2 - x - x^2 =$

17.) $4x + 3 + x^2 - x =$

18.) $2x + 3x + 9 + x =$

19.) $2x^2 + 3 + 3x - 1 =$

20.) $2x + 5 + x^2 - x =$

21.) $2x + 4y - x + y =$

22.) $2y + x + 3x - y =$

23.) $x + y + 2y - 4 =$

24.) $5 + 2x + y + 2x - 1 =$

25.) $3y + 2 + 2y + 5 =$

26.) $2x + 2y + x^2 - x + x^2 =$



Write all of your answers on a separate sheet of paper.

Rewrite each pair of fractions as equivalent fractions with a common denominator.

1. $\frac{2}{3}, \frac{3}{4}$

2. $\frac{3}{5}, \frac{1}{2}$

3. $\frac{2}{5}, \frac{1}{3}$

4. $\frac{5}{6}, \frac{4}{5}$

5. $\frac{1}{2}, \frac{2}{3}$

6. $\frac{3}{7}, \frac{2}{3}$

7. $\frac{1}{3}, \frac{3}{10}$

8. $\frac{2}{5}, \frac{3}{7}$

Write each fraction as a percent.

9. $\frac{7}{10}$

10. $\frac{6}{100}$

11. $\frac{1}{2}$

12. $\frac{3}{4}$

13. $\frac{2}{5}$

14. $\frac{3}{20}$

Make a magnitude estimate for the quotient. Is the solution in the *tenths*, *ones*, *tens*, or *hundreds*?

15. $629 \div 9$

16. $32.1 \div 6$

17. $1.62 \div 7$

18. $\$86.16 \div 5$

19. $678.1 \div 4$

20. $885 \div 21$

21. $239 \div 35$

22. $4.72 \div 6$



Write all of your answers on a separate sheet of paper.

Complete.

23. $3^3 = \square$

24. $4^3 = 64$

25. $8 * 8 * 8 * 8 = \square$

26. 6 to the fourth power = \square

27. The square root of $\square = 11$

Rewrite the number sentences with parentheses to make them correct.

28. $8 * 10 - 5 = 75$

29. $6 * 18 - 6 = 72$

30. $42 - 21 - 7 = 14$

31. $18 - 24 - 7 = 1$

32. $5 * 8 + 2 * 13 = 650$

33. $117 = 9 * 8 + 5$

34. $236 = 4 * 8 + 51$

35. $448 = 7 * 22 + 47 - 5$

Solve.

36. How many 80s in 400?

37. How many 110s in 7,700?

38. $\begin{array}{r} 12 \\ * 2,100 \\ \hline \end{array}$

39. $\begin{array}{r} 41 \\ * 60 \\ \hline \end{array}$

40. $\begin{array}{r} 119 \\ * 3 \\ \hline \end{array}$

41. $\begin{array}{r} 153 \\ * 5 \\ \hline \end{array}$

42. $\begin{array}{r} 286 \\ * 23 \\ \hline \end{array}$

43. $\begin{array}{r} 56 \\ * 15 \\ \hline \end{array}$

44. $\begin{array}{r} 820 \\ * 16 \\ \hline \end{array}$

45. $26 \overline{)364}$

46. $6 \overline{)312}$

Answer each question using a number and a fraction. Circle your answers.

What's the Probability?

1. Maggie has a bag of marbles with eight purple marbles, five orange marbles, four blue, and seven green. How many marbles does Maggie have in all?

$$(8 + 5 + 4 + 7) = \textcircled{24}$$

What are Maggie's chances of picking a blue marble?

Her chances of picking a blue marble are 4 in 24 or $\frac{4}{24}$.

2. Jesse is trying to draw a queen from a deck of 52 playing cards. If he already drew one card with no luck, what is the **probability** of him drawing a queen now?

What is the **probability** of drawing a queen on the third try if a queen hasn't been drawn yet?

3. If there are nine boys and 13 girls in the gym class and a student closes his eyes to pick a person for his team, is he more likely to pick a boy or a girl?

What are the chances of picking a boy?

What are the chances of picking a girl?

4. Penny's large pack of gum contains five strawberry-flavored pieces, three lime-flavored pieces, and eight lemon-flavored pieces. If Penny pulls out a piece without looking, what flavor is she most likely to get?

What are the **probabilities** of each flavor being chosen?

5. A bag of colorful shelled candy contains eight orange, four green, seven yellow, three blue, six red, and seven brown pieces. What is the **probability** of drawing a green or yellow piece of candy?

What is the **probability** of drawing an orange or blue piece?

Which color candy is likely to be drawn?

6. A dart board has 14 spaces that show even numbers between 3 and 31 and ten spaces that show odd numbers from 3 to 21. What is the **probability** of a dart landing on a space with a prime number?


What is the **probability** of a dart landing on a space with a composite number?




Write the letter of the number that matches the expression.

- | | |
|----------------------------------|---------------------|
| 1. $6 * 6 * 6$ | A. 15,625 |
| 2. $5 * 10^5$ | B. 8,000,000 |
| 3. 5^6 | C. 500,000 |
| 4. $3^2 * 4^3$ | D. 216 |
| 5. 3 to the seventh power | E. 576 |
| 6. $8 * 10^6$ | F. 2,187 |

Complete the "What's My Rule?" tables.

7. 

in	out
180	

8. 

in	out
43	4

8.

in	out
180	
240	
990	
1,260	
1,500	

9.

in	out
6	630
8	
	945
11	
15	

10.

in	out
54	9
30	5
	6
1	
2	

10.

in	out
6	630
8	
	945
11	
15	

Use with or after Lesson 72.



11. Use the clues to complete the puzzle.



- Find $\frac{2}{5}$ of 20. Write the result in the thousands place.
- Add 1 to the number in the thousands place. Write the answer in the ten-thousands place.
- Find $14 \div 4$. Reverse the digits in the result and divide by 13. Write the result in the millions place.
- Add 6 to the digit in the ten-thousands place. Divide by 5 and write the result in the hundred-thousands place.
- Write $\frac{14}{2}$ as a whole number in the hundred-millions place.
- Find 60% of 10. Write the result in the ten-millions place.
- Subtract 3 from the number in the hundred-millions place. Write the result in the ten-billions place.
- Find $\frac{3}{7}$ of 49. Subtract 19 and write the result in the hundred-billions place.
- Find the sum of all the digits in the chart so far. Divide the result by 44 and write the answer in the billions place.
- Write 0 in the remaining places.

12. Write the number in words.

Use with or after Lesson 7.2.



Write all of your answers on a separate sheet of paper.

Write each number using scientific notation.

1. 6 million
2. 20,000
3. 500,000
4. 100 billion
5. 40,000,000
6. 9 trillion
7. 3 thousand
8. 80 million

Write the numbers in order from least to greatest.

9. 1 million; 3×10^4 ; 4 thousand; 100,000; 4×10^5
10. 6×10^5 ; 2 million, 160,000; $5 \times 10 \times 10 \times 10$; 25 thousand
11. 33,000,000; 9×10^6 ; 17 million; 1 billion; 4,000,000,000

Solve.

$$\begin{array}{r} 12. \quad 236 \\ \times 43 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 25 \\ \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 235 \\ \times 85 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 35,235 \\ + 745 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 345 \\ + 89 \\ \hline \end{array}$$

$$\begin{array}{r} 17. \quad 55,000 \\ + 4,500 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \quad 5,233 \\ - 3,407 \\ \hline \end{array}$$

$$\begin{array}{r} 19. \quad 435 \\ - 105 \\ \hline \end{array}$$

$$\begin{array}{r} 20. \quad 516 \\ + 242 \\ \hline \end{array}$$



Write all of your answers on a separate sheet of paper.

Rewrite the number models with parentheses to make them correct.

1. $28 / 4 - 7 = 0$
2. $23.2 = 8 \times 3 - 0.8$
3. $129 - 18 - 48 = 63$
4. $57.6 = 3 \times 12.8 + 6.4$
5. $11 \times 4.2 + 6 \times 10.1 = 106.8$
6. $-70 = 7 \times 50 - 60$
7. $13 \times 14 + 8 - 3 = 187$

Write the letter of the prime factorization for each number.

- | | | |
|--------|--------------------------|---------------------------|
| 8. 70 | a. $2 \times 3 \times 5$ | b. $2 \times 5 \times 7$ |
| 9. 29 | a. 1×29 | b. $2 \times 5 \times 19$ |
| 10. 80 | a. $2^5 \times 4$ | b. $2^4 \times 5$ |
| 11. 28 | a. $2 \times 2 \times 7$ | b. $2^3 \times 7$ |

Write each fraction in simplest form.

- | | | | |
|--------------------|---------------------|---------------------|---------------------|
| 12. $\frac{24}{4}$ | 13. $\frac{36}{12}$ | 14. $\frac{11}{11}$ | 15. $\frac{70}{10}$ |
| 16. $\frac{48}{8}$ | 17. $\frac{18}{3}$ | 18. $\frac{6}{4}$ | 19. $\frac{8}{1}$ |
| 20. $\frac{9}{12}$ | 21. $\frac{40}{80}$ | 22. $\frac{14}{16}$ | 23. $\frac{24}{38}$ |

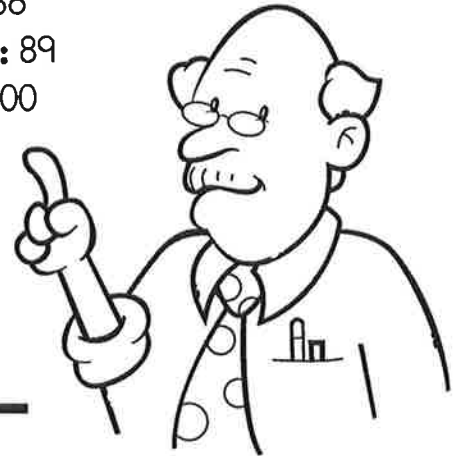
Name: _____

Date: _____

Test Scores							
100	87	70	95	88	90	60	100

Mean: 86**Median:** 89**Mode:** 100**Mean** is another word for average.

Median is the middle number in a group of numbers in numerical order. **NOTE: FOR EVEN SETS OF NUMBERS, TAKE THE AVERAGE OF THE MIDDLE TWO NUMBERS.**

Test scores: 60 70 87 88 **89** 90 95 100 100**Mode** is the number that appears the most often.Find the **mean**, **median**, and **mode** for each.

Basketball Points					
6	22	12	36	19	

Golf Scores					
93	70	90	90	68	75

1. **Mean:** _____2. **Mean:** _____**Median:** _____**Median:** _____**Mode:** _____**Mode:** _____

	Data	mean	median	mode
A.	10, 17, 10, 14, 19			
B.	18, 19, 64, 19, 32, 60, 61			
C.	11, 38, 13, 38, 40			
D.	12, 15, 11, 15, 13, 10, 15			
E.	87, 81, 95, 79, 83, 79			
F.	96, 62, 97, 100, 96, 87, 85			

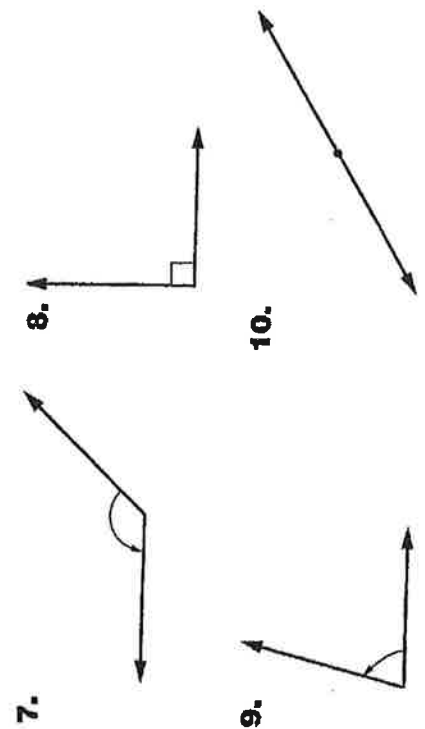
Tip:

The first two letters in **mode** are **mo** = **most often**. Also, **median** means middle – the median of a highway separates traffic in the middle.

Write all of your answers on a separate sheet of paper.
Write *true* or *false* for each number sentence. Follow the rules of order for operations.

1. $(3 + 5) * 4 = 32$
2. $(18 - 6) * 2 - 3 = 24$
3. $(48 - 2^2) \div 10 = 5$
4. $15 - 4 * 2 + 1 = 8$
5. $100 \div (25 + 25) + 25 = 27$
6. $16 - (8 + 2) = 10$

Identify each angle. Write *acute*, *right*, *obtuse*, or *straight*.



Solve. Write each answer as a mixed number.

11. $172 \div 8$
12. $367 \div 12$
13. $431 \div 6$
14. $572 \div 3$

Write all of your answers on a separate sheet of paper.
Write the digit in the thousandths place.

15. 5.967 16. 1.2350 17. 8.84256
18. 0.47000 19. 3.368 20. 10.96733

Solve.

21. $360 - z = 241$ 22. $34 + 23 = y$
23. $646 + 324 = n$ 24. $980 - 150 = x$
25. $2,350 - m = 1,982$ 26. $90 = 10,800 / p$
27.
$$\begin{array}{r} 478 \\ - 55 \\ \hline \end{array}$$
 28.
$$\begin{array}{r} 363 \\ - 67 \\ \hline \end{array}$$
 29.
$$\begin{array}{r} 34 \\ * 9 \\ \hline \end{array}$$

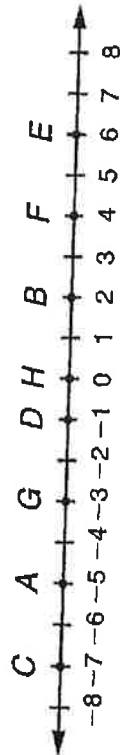
30.
$$\begin{array}{r} 3,436 \\ + 2,436 \\ \hline \end{array}$$
 31.
$$\begin{array}{r} 3,456 \\ * 63 \\ \hline \end{array}$$
 32.
$$\begin{array}{r} 16 \overline{)384} \end{array}$$

33. An elephant can eat 500 pounds of hay and drink 60 gallons of water in one day. About how many pounds of hay would an elephant eat in a week?
34. About how many pounds of hay does an elephant eat in a year?
35. How many gallons of water does an elephant drink in one year?
36. A box of pinwheel cookies contains 42 cookies. Richard and his six friends share the cookies equally. How many does each get?



Write all of your answers on a separate sheet of paper.

Write the letter that identifies each number on the number line.

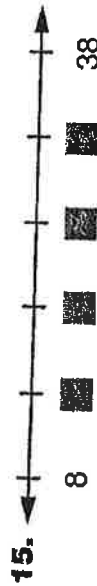


1. -1 2. 4 3. 0 4. 6
5. -7 6. 2 7. -3 8. -5

Compare. Write $>$, $<$, or $=$.

9. -10 ☐ $4\frac{1}{2}$ 10. -3 ☐ -5
11. -3.5 ☐ $-3\frac{1}{2}$ 12. -7 ☐ 3
13. $-2\frac{1}{2}$ ☐ $-2\frac{1}{4}$ 14. $6\frac{1}{2}$ ☐ $-3\frac{1}{3}$

Complete the number lines.



Write all of your answers on a separate sheet of paper.

Add or subtract.

19. $\frac{3}{10} + \frac{3}{10}$ 20. $\frac{11}{12} - \frac{1}{2}$
21. $\frac{7}{8} - \frac{2}{8}$ 22. $\frac{3}{4} + \frac{1}{12}$
23. $\frac{1}{4} + \frac{3}{4}$ 24. $\frac{5}{6} - \frac{1}{4}$

Round 53,729,437 to the nearest

25. hundred 26. thousand
27. hundred-thousand 28. million

Solve.

29. $60 * n = 3,600$ 30. $s * 7 = 49$
31. $g * 32 = 640$ 32. $2 * m = 960$
33. $b * 7 = 350$ 34. $j * 90 = 360$
35. $8 * f = 640$ 36. $6 * a = 72$

Use the clues to find the number.

37. Clue 1: I am a prime number less than 75.
Clue 2: My digits sum to 13.
38. Clue 1: I am an even number.
Clue 2: I am less than 65, but greater than 50.
Clue 3: I am divisible by 5.



Write all of your answers on a separate sheet of paper.

Complete.

7. $100^2 = \square$

8. $6\square = 216$

9. $11 * 11 * 11 = 11\square$

10. The square root of 676 = \square

Solve.

11. $\frac{2}{8}$
 $\frac{1}{16}$

12. $\frac{48}{13}$

13. $\frac{28}{39}$

14. $\frac{79,430}{31,451}$

15. $\frac{43}{92}$

16. $\frac{6}{14}$
 $\frac{3}{4}$

17. $\frac{439}{100}$

18. $\frac{136,343}{5}$

19. Write the missing numbers for the table.

Fraction	Percent	Decimal
$\frac{1}{5}$	\square	\square
\square	\square	0.57
\square	75%	\square
\square	81%	\square
\square	\square	0.99



Write all of your answers on a separate sheet of paper.

Compare. Write $>$, $<$, or $=$.

1. $\frac{3}{5}$ \square $\frac{10}{15}$

2. $\frac{3}{4}$ \square $\frac{8}{12}$

3. $\frac{3}{10}$ \square $\frac{2}{5}$

4. $\frac{3}{6}$ \square $\frac{3}{7}$

5. $\frac{3}{9}$ \square $\frac{1}{3}$

6. $\frac{5}{8}$ \square $\frac{9}{16}$

7. $\frac{12}{20}$ \square $\frac{2}{5}$

8. $\frac{7}{8}$ \square $\frac{11}{12}$

Mr. Edwards records points for homework

assignments. Each student in the class is represented in the stem-and-leaf plot.

9. How many students are in the class?

Homework Points

	Stems (10s)	Leaves (1s)
10. What is the maximum?	4	1 3 3 5 7
11. What is the minimum?	5	0 4 5 6 6 6
12. What is the mode?	6	2 5 7 9 9
13. What is the median?	7	2 5 7 7
14. What is the mean?	8	0



Write all of your answers on a separate sheet of paper.

Rename each as a whole number or a mixed number in simplest form.

1. $\frac{12}{8}$

2. $\frac{6}{3}$

3. $\frac{27}{8}$

4. $\frac{16}{5}$

5. $\frac{36}{4}$

6. $\frac{19}{6}$

Add. Write each sum as a whole number or mixed number in simplest form.

7. $3\frac{1}{2} + 2\frac{1}{2}$

8. $4\frac{1}{8} + 2\frac{3}{8}$

9. $6\frac{1}{3} + 8\frac{2}{3}$

10. $1\frac{4}{5} + 3\frac{3}{5}$

11. $7\frac{2}{9} + 3\frac{8}{9}$

12. $2\frac{3}{10} + 4\frac{1}{5}$

13. $3\frac{1}{6} + 4\frac{5}{12}$

14. $4\frac{1}{12} + 1\frac{1}{3}$

Tell whether each number sentence is *true* or *false*.

15. $20 + (10 * 7.4) = 94$

16. $70 = (11 * 5) + 18$

17. $32 + (18 * 6) = 132$

18. $35 - (99 / 9) = 24$

Put these numbers in order from smallest to largest.

19. 4.8 0.84 4.008 4,000.08 80,000.4

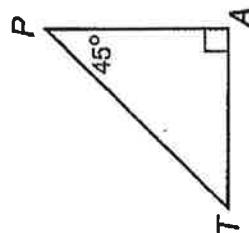
20. 20.1 2.01 0.21 201.2 120.1



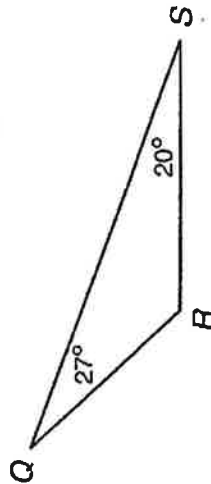
Write all of your answers on a separate sheet of paper.

The three angles of a triangle always add up to 180° . A right angle measures 90° .

21. What is the measure of angle T ?



22. What is the measure of angle R ?



Fill in the missing numbers on the number lines.



Write all of your answers on a separate sheet of paper.

Subtract. Write your answers in simplest form.

1. $5 - \frac{5}{6}$
2. $9 - \frac{5}{12}$
3. $6 - 1\frac{1}{4}$
4. $10 - 8\frac{2}{3}$
5. $3\frac{3}{4} - 2\frac{1}{4}$
6. $9\frac{5}{6} - 7\frac{1}{6}$
7. $9\frac{1}{5} - 4\frac{2}{5}$
8. $7\frac{11}{12} - 2\frac{5}{12}$

Solve.

9. $(15 - 15) * 4$
10. $65 - (6 * 9)$
11. $(560 + 70) / 30$
12. $(900 / 3) + 40$

13. The temperature at noon was 18°F. With the wind chill it was -4°F. How much colder is the wind chill than the normal temperature?

Rewrite the number sentences with parentheses to make them correct.

14. $880 = 80 * 16 + 2 - 7$
15. $7 * 12 - 6 = 42$
16. $144 = 8 + 4 * 12$
17. $37 - 18 - 5 = 24$
18. $45 - 18 + 31 = -4$
19. $56 = 8 + 4 * 12$
20. $45 - 18 + 31 = 58$
21. $5 * 8 + 6 * 9 = 94$

Write all of your answers on a separate sheet of paper.

Solve.

22. You start with a number. Double it. Square the answer. You get 400. What number did you start with?
23. You start with a number. Double it. Square the answer. You get 1,296. What number did you start with?

Write $>$, $<$, or $=$ to make each sentence true.

24. $\frac{1}{4} + \frac{1}{2} \blacksquare \frac{4}{6}$
25. $2\frac{4}{12} \blacksquare 2.5$
26. $\frac{12}{2} \blacksquare 80 / 10$
27. $12.5 \blacksquare 25 / 2$

28. $\frac{3}{5} \blacksquare \frac{4}{10}$

29. $3\frac{3}{8} \blacksquare \frac{25}{8}$

Complete the "What's My Rule?" tables.

30.

in	out
4,260	1,420
2,100	
6,399	
4,584	
	85

out = in * 3.5	
----------------	--

31.

in	out
27	
33	
	14
24	
51	



Write all of your answers on a separate sheet of paper.

Write a decimal and a percent for each fraction.

1. $\frac{73}{100}$ 2. $\frac{1}{2}$ 3. $\frac{3}{4}$
 4. $\frac{45}{100}$ 5. $\frac{1}{3}$ 6. $\frac{3}{5}$
 7. $\frac{9}{10}$ 8. $\frac{8}{50}$ 9. $\frac{3}{20}$

Maury bought a new shirt that was on sale at 15% off the original price. The original price was \$30.

10. How much will he pay?
 11. How much money will Maury save on the shirt?

Measure to the nearest $\frac{1}{2}$ cm.

12.

13.

Solve.

14. $\begin{array}{r} 12 \\ * 9 \\ \hline \end{array}$ 15. $\begin{array}{r} 52 \\ - 38 \\ \hline \end{array}$ 16. $\begin{array}{r} 258 \\ + 3,217 \\ \hline \end{array}$ 17. $\begin{array}{r} 6,323 \\ - 236 \\ \hline \end{array}$

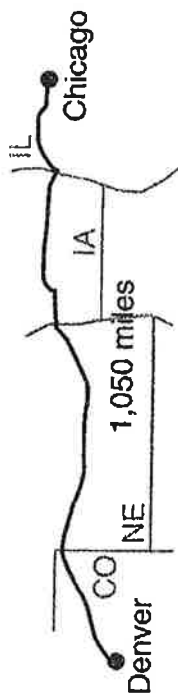
18. $\begin{array}{r} 10 \\ * 8 \\ \hline \end{array}$ 19. $\begin{array}{r} 75 \\ - 22 \\ \hline \end{array}$ 20. $\begin{array}{r} 876 \\ + 921 \\ \hline \end{array}$ 21. $\begin{array}{r} 8,614 \\ + 125 \\ \hline \end{array}$

22. $\begin{array}{r} 1\frac{2}{3} \\ - 1\frac{1}{3} \\ \hline \end{array}$ 23. $\begin{array}{r} 7\frac{5}{8} \\ + 1\frac{1}{8} \\ \hline \end{array}$ 24. $\begin{array}{r} 9\frac{7}{10} \\ + 3\frac{3}{10} \\ \hline \end{array}$ 25. $\begin{array}{r} 6\frac{2}{5} \\ + 4\frac{2}{5} \\ \hline \end{array}$



Write all of your answers on a separate sheet of paper.

Sally, John, and Jeff drove from Denver to Chicago. Sally drove $\frac{2}{9}$ of the distance. John drove $\frac{1}{3}$ of the distance. Jeff drove the rest of the way.



26. How many miles did Sally drive?
 27. How many miles did John drive?
 28. How many miles did Jeff drive?

Write $>$, $<$, or $=$ to make each sentence true.

29. $\frac{1}{4}$ \square $\frac{3}{6}$
 30. $1\frac{4}{12}$ \square $\frac{5}{3}$
 31. $\frac{8}{2}$ \square $\frac{9}{10}$
 32. 4.5 \square $25 \div 5$
 33. $\frac{1}{5}$ \square $\frac{2}{10}$

Complete the "What's My Rule?" tables.

Rule
out = in \times 710

in	out
6	4,260
8	
9	
11	
15	

Rule
out = in \div 3

in	out
27	
33	
	14
24	
51	



1. $\frac{1}{10}$ of 90

2. $\frac{2}{5}$ of 250

3. $\frac{3}{8}$ of 24

4. $\frac{1}{40}$ of 160

5. $\frac{9}{16}$ of 32

6-2 of 90

7. $\frac{9}{8}$ of 64

8. 9 of 81

9. $\frac{7}{8}$ of 16

10. $\frac{6}{8}$ of 72

11. $\frac{4}{9}$ of 18

12. $\frac{5}{6}$ of 30

- Multiply 9 by 12. Subtract 100. Write the result in the hundreds place.
- Triple the number in the hundreds place and then divide by 4. Write the result in the millions place.
- Divide 3,300 by 1,100. Add 1 and write the result in the hundred-thousands place.
- Double the number in the millions place and divide by 6. Write the result in the tens place.
- Add 3 to the number in the tens place. Write the result in the ten-thousands place.
- Find 2% of 50. Write the result in the ones place.
- Divide 630 by 90. Write the result in the thousands place.

Use with or after Lesson 8.10.

93

The Powers of 10 Table

Millions	Hundred- Thousands	Ten- Thousands	Thousands	Hundreds	Tens	Ones
	100,000			100		1
	10 [10,000s]			10 [10s]		10 [0.1s]
10^6				$10 \times 10 \times 10$		10^0

Write all of your answers on a separate sheet of paper.

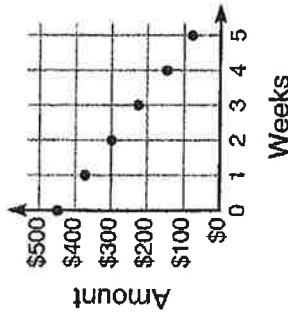
14. Copy and then complete the Powers of 10 Table.



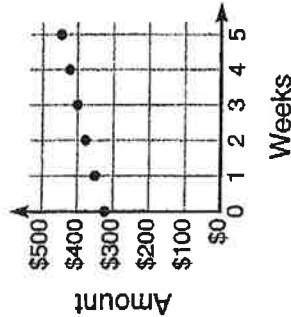
Write all of your answers on a separate sheet of paper.

Solve.

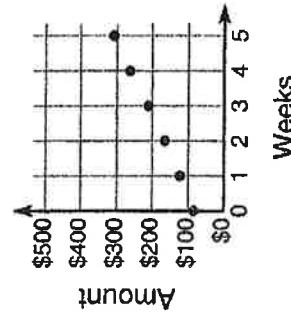
Graph A



Graph B



Graph C



1. Susan deposited \$45 every week during a five-week period. After three weeks, she had a little more than \$200. Which graph depicts her account value?
2. Tom withdrew \$75 every week for five weeks. Which graph depicts his account value?
3. After five weeks of regular deposits, Julian's account balance was \$450. Which graph depicts his account value?
4. If Julian continued making regular weekly deposits, how long would it take him to save \$1,000?



Write all of your answers on a separate sheet of paper.

Solve.

5.
$$\begin{array}{r} 300 \\ - 600 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 62,473 \\ + 5,268 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 253 \\ + 253 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 2,352 \\ - 967 \\ \hline \end{array}$$

9. $26 - (-7)$

10.
$$\begin{array}{r} 35 \\ - 63 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 264 \\ + 656 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 12,965 \\ - 1,583 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 4,322 \\ - 3,362 \\ \hline \end{array}$$

14. How much is $\frac{5}{8}$ of 32¢?

15. How much is $\frac{2}{12}$ of 54¢?

16. How much is $\frac{1}{10}$ of \$8.30?

17. How much is $\frac{1}{3}$ of \$3.60?

18. How much is $\frac{2}{5}$ of \$2.20?

19. How much is $\frac{6}{9}$ of 27¢?

Complete.

20. $3^4 = \blacksquare$

21. $5^\blacksquare = 3,125$

22. $6 * 6 * 6 * 6 = \blacksquare$

23. 10 to the fourth power = \blacksquare

Rewrite the number sentences with parentheses to make them correct.

24. $43 - 24 - 8 = 27$

25. $19 - 35 - 8 = -8$

26. $6 * 9 + 3 * 14 = 1,008$

27. $240 = 10 * 6 + 18$

28. $370 = 5 * 9 + 65$

29. $398 = 8 * 43 + 68 - 14$

30. $10 * 10 - 5^2 = 75$

31. $7 * 6^2 - 4^2 = 140$

Name: _____

Date: _____

Review: Fractions

Add or subtract.

A. $\frac{5}{6} + \frac{5}{8} =$ _____	$\frac{13}{21} + \frac{5}{7} =$ _____	$\frac{5}{6} + \frac{10}{18} =$ _____	$\frac{6}{7} + \frac{8}{9} =$ _____
B. $\frac{4}{5} + \frac{9}{15} =$ _____	$\frac{5}{16} + \frac{17}{8} =$ _____	$\frac{13}{12} + \frac{7}{8} =$ _____	$\frac{14}{24} + \frac{7}{12} =$ _____
C. $\frac{27}{30} - \frac{5}{6} =$ _____	$\frac{5}{6} - \frac{1}{5} =$ _____	$\frac{7}{8} - \frac{1}{2} =$ _____	$\frac{5}{6} - \frac{2}{9} =$ _____
D. $\frac{9}{16} - \frac{3}{8} =$ _____	$\frac{4}{5} - \frac{2}{8} =$ _____	$\frac{4}{7} - \frac{3}{14} =$ _____	$\frac{3}{4} - \frac{1}{5} =$ _____
E. $\frac{3}{6} - \frac{2}{15} =$ _____	$\frac{5}{8} - \frac{1}{6} =$ _____	$\frac{7}{9} - \frac{2}{6} =$ _____	$\frac{7}{24} - \frac{3}{12} =$ _____
F. $2\frac{1}{8} + 4\frac{1}{2} =$ _____	$3\frac{1}{2} + 5\frac{3}{6} =$ _____	$3\frac{9}{10} + 2\frac{4}{15} =$ _____	$2\frac{2}{3} + 3\frac{1}{6} =$ _____
G. $3\frac{7}{9} + 2\frac{3}{27} =$ _____	$4\frac{2}{8} + 3\frac{4}{16} =$ _____	$3\frac{2}{12} + 3\frac{1}{3} =$ _____	$6\frac{4}{9} + 2\frac{2}{3} =$ _____
H. $6\frac{7}{8} + \frac{2}{6} =$ _____	$6 + 3\frac{5}{9} =$ _____	$\frac{3}{12} + 5\frac{9}{12} =$ _____	$12\frac{4}{8} + \frac{2}{4} =$ _____

Compare. Use >, <, of =.

I. $5\frac{1}{4} - 1\frac{1}{8} \square 5\frac{4}{6} - 1\frac{1}{3}$	$6\frac{5}{18} + 1\frac{3}{9} \square 3\frac{1}{4} + 3\frac{4}{6}$	$\frac{6}{12} \square \frac{9}{24}$
J. $7\frac{1}{2} - 4 \square 9 - 7\frac{4}{10}$	$8\frac{7}{9} - 4\frac{1}{3} \square 9\frac{5}{6} + 5\frac{2}{3}$	$\frac{10}{21} \square \frac{5}{7}$
K. $9 + 3\frac{4}{5} \square 15 - 4\frac{2}{3}$	$9\frac{4}{10} + 2\frac{3}{5} \square 10 + 3\frac{4}{9}$	$\frac{5}{15} \square \frac{2}{3}$
L. $7\frac{1}{4} - 2\frac{2}{8} \square 3\frac{5}{8} - 1\frac{1}{3}$	$4\frac{7}{18} + 1\frac{3}{9} \square 2\frac{1}{2} + 3\frac{1}{2}$	$\frac{3}{12} \square \frac{4}{8}$

Write the missing number.

M. $5\frac{2}{9} + \underline{\hspace{2cm}} = 11$	$\underline{\hspace{2cm}} - 3\frac{2}{7} = 7\frac{5}{21}$	$\underline{\hspace{2cm}} + 2\frac{2}{3} = 5\frac{5}{6}$
N. $\underline{\hspace{2cm}} - 6\frac{3}{5} = 3\frac{1}{3}$	$\underline{\hspace{2cm}} - 7\frac{1}{6} = 4\frac{2}{3}$	$\underline{\hspace{2cm}} - 5\frac{3}{4} = 9\frac{5}{8}$